
Product Data Sheet

Product Name: 4-Nitrophenyl β -D-Cellotetraoside

Cat. No.: GC18209

Chemical Properties

Cas. No. 129411-62-7

Chemical Name N/A

SMILES N/A

Formula $C_{30}H_{45}NO_{23}$ M.Wt 787.7Solubility Soluble in DMSO Storage Store at $-20^{\circ}C$

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure **Background**

4-Nitrophenyl β -D-cellotetraoside is a small molecule cellulose mimic that consists of a tetramer of D-glucose units joined by β -1-4-glycosidic bonds. An aglycosidic bond links a 4-nitrophenyl moiety to the anomeric carbon of the first glucose unit. 4-Nitrophenyl β -D-cellotetraoside is employed in cellulose degradation studies to determine the specificity of cellulases. The defined, small, and soluble structure of 4-nitrophenyl β -D-cellotetraoside makes it well suited for these studies. Its fragmentation pattern after enzymatic digestion can be analyzed by TLC or by release of 4-nitrophenol which exhibits strong absorbance at 395 nm in alkaline solution.

Caution: Product has not been fully validated for medical applications. For research use only.

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